



RP TECH SOLUTIONS

Instrumentation & Automation Engineering Consultant

CONTACT DETAILS:

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OFFICE ADDRESS:

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Regd. Office:

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INTRODUCTION

RP Tech Solutions is an innovative & integrated engineering solution provider with project time and cost management services in following business modules:

Instrumentation & Automation Engineering Services for various industries.

We have team of dedicated experienced Engineers, Designers & Intellectual property professionals.

We are distinct and distinguished in the engineering consulting services & in the application of innovative ideas leading to lifecycle asset.

We offer multi-disciplinary services in project engineering across several sectors.





ENGINEERING CAPABILITIES

Basic & Detailed Engineering for:

- Oil & Gas
- Petrochemical
- Chemical Plant
- Steel Plant
- Power Industry
- Food & Pharmaceutical Industry

PROCUREMENT SUPPORT

- Material Requisition
- Vendor Offer Review
- Technical Bid Evaluation
- Vendor Drawing & Document Review





- Support in Procurement activity,
- Review of Vendor documents
- Plant CCTV system specification for procurement
- Multi-discipline interfacing.

TECHNICAL SKILL SUMMARY

INSTRUMENTATION & AUTOMATION

- Preparation of Specifications for Various Field instruments, PLC, Control & Shutdown System for Procurement.
- Instrument Index & I/O list
- System Architecture for DCS, SIS, F&G and PLC/SCADA
- Preparation of Cause & Effect Diagram, Control Narrative
- Preparation of Field Instrument Datasheet, Material Requisition, Technical analysis of vendor offer
- Sizing and selection of the Field instruments
- Package vendor offer review and Technical Bid Evaluation.
- Cable schedule and Junction box schedule
- Instrument location plans, Control room Layout Drawings
- Cable tray and Junction box layouts
- Junction Box wiring diagrams, Control Panel wiring diagrams
- Instrument Loop schematic
- Instrument Hook-up & Installation Drawings
- Instrument Bill of Materials (MTO) / schedule of rates (SOR)
- PLC automation & LCP design, assembly, wiring & testing

FAMILIAR WITH CODES & STANDARDS

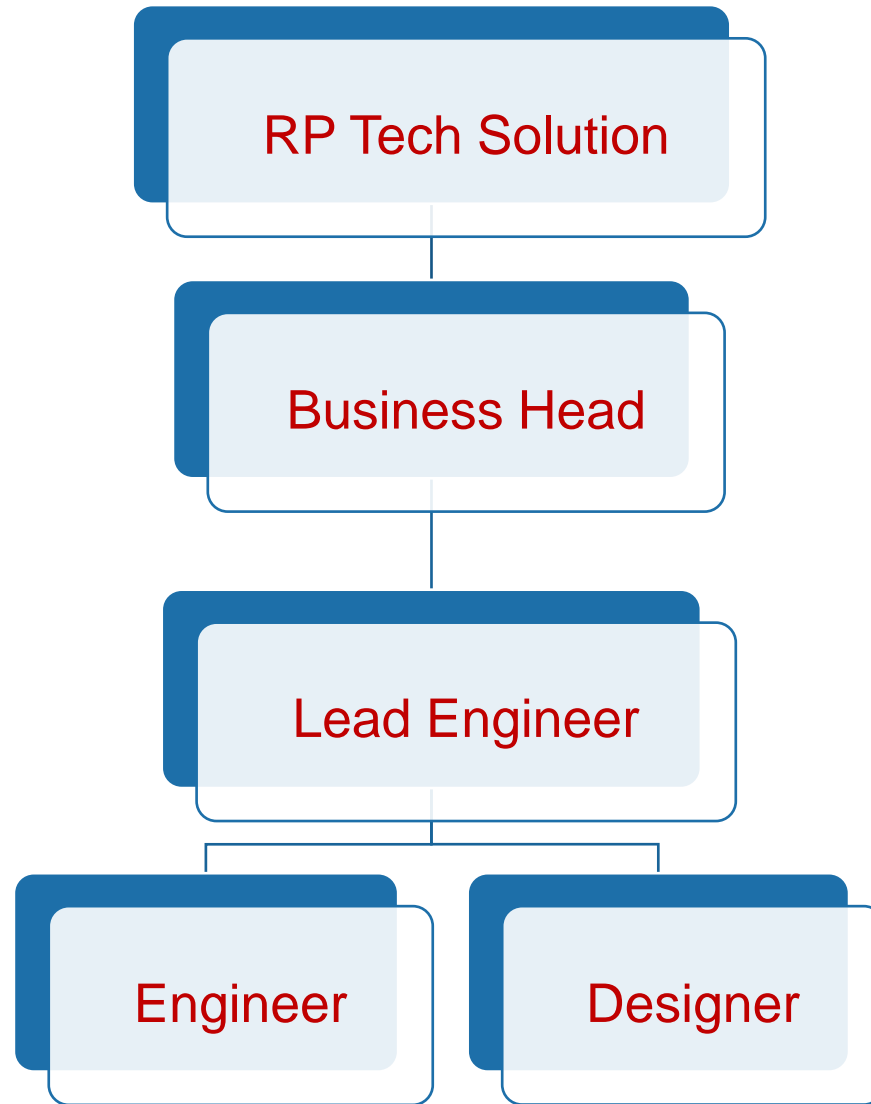
- AGA - American Gas Association
- ANSI/ASME - American National Standards Institute/American Society of Mechanical Engineers
- API - American Petroleum Institute
- ASTM - American Society for Tests and Materials
- DIN Standards
- IEC - International Electrotechnical Commission
- ISA - Instrumentation System and Automation Society
- ISO - International Organization for Standardization
- NACE - National Association of Corrosion Engineers
- NEFA - National Fire Protection Association
- NEMA - National Electrical Manufacturers Association
- Shell DEP, GASCO/TAKREER DGS, Borouge Specification, ExxonMobil, SOC, BGC, EIL, PDIL Standards.

SOFTWARE CAPABILITIES

- AUTOCAD / Micro Station
- Control Valve, Safety Valve, Thermowell, Flow orifice sizing software
- InstuCalc
- AUTOCAD
- Navisworks
- Smart Plant Instrumentation (InTools)
- PLC Programming & SCADA Development



ORGANOGRAM



LEADERSHIP

Mr. Kalpesh Prajapati – Business Head

B.E. Instrumentation & Control

Experience:

- Having 22 years of Experience in the field of Instrumentation & control for Oil & Gas, Refinery, LNG, Petrochemical, Chemical, Steel, Off-shore industries.
- Hands on experience of various Control Systems, SCADA systems, PLC, DCS, Fire & Gas, ESD systems & Bentley Nevada VMS.
- Skilled in Instrumentation Basic and Detail Engineering, Control System Design, sizing calculation, Instrument specification, Data sheet & material requisition, Technical Bid Analysis, Vendor data review, 3D model review.

Worked in Reputed Companies like:

- Coen Bharat Ltd, Vadodara, India
- Petrofac Engineering India Ltd, Mumbai, India
- Kentz Engineers & Constructors, Abu Dhabi, UAE
- Hazira LNG Ltd (Shell & TOTAL JV Group) Surat, India
- Sinopec International Petroleum Corporation Service, Abu Dhabi, UAE
- Una E&C Pte Ltd, Dubai, UAE
- SNC Lavalin, Dubai, UAE
- L&T Chiyoda Ltd, Vadodara, India
- L&T Technology Services Ltd, Vadodara, India

